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File: USPT

Jun 7, 1994

US-PAT-NO: 5319774

DOCUMENT-IDENTIFIER: US 5319774 A

TITLE: Recovery facility for incomplete sync points for distributed application

DATE-ISSUED: June 7, 1994

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Szczygielski; Thomas J.	Endicott	NY		
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APPL-NO: 07/ 525938 [PALM]

DATE FILED: May 16, 1990

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PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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<input type="checkbox"/>	<u>5140689</u>	August 1992	Kobayashi	395/575

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US-CL

0250847

May 1987

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ART-UNIT: 233

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ASSISTANT-EXAMINER: Hua; Ly V.

ATTY-AGENT-FIRM: Samodovitz; Arthur J.

ABSTRACT:

To recover a failed commit procedure, a first recovery facility collects and compares sync point state information from a variety of different types of resources including a data repository and a protected conversation. The comparison of the sync point state information is made automatically in response to a sync point failure event. A second recovery facility serving another execution environment notifies the first recovery facility after a failure and subsequent recovery procedure of the second execution environment has completed. The first recovery facility makes automatic cyclic attempts to communicate with the second recovery facility. The first recovery facility can receive a manually initiated but automatically simulated response of sync point state information when there is a failure such that actual sync point state information cannot be received. The first recovery facility is responsive to the simulated sync point state information to proceed with a recovery operation substantially as if actual sync point state information were received.

6 Claims, 63 Drawing figures

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Jun 7, 1994

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DOCUMENT-IDENTIFIER: US 5319774 A

TITLE: Recovery facility for incomplete sync points for distributed application

☐ [Generate Collection](#) [Print](#)Detailed Description Text (159):

1. object resource, identified by an object resource identifier, which is the set of objects 78 managed by a resource manager 63. This is the case of a generic resource manager and its resource, extendible to any resource, including sets of data files, queues, storage, or applications. This type of resource identifier is used to establish a connection to the manager of the resource 63 in order to use the resource in some way, for example to open a file, start up an application, etc. that is owned by that resource manager.

Other Reference Publication (16):

Article "Carat: A Testbed for the Performance Evaluation of Distributed Database Systems" by W. Kohler et al., CH2345-7/86/0000/1169, 1986 IEEE, pp. 1169-1178.

Other Reference Publication (26):

Article "Simplifying Distributed Database Systems Design by Using a Broadcast Network" by J. Chang, ACM 0-89791-128-8/84/006/0223, 1984 pp. 223-233.